

From: [Simon, Verneta](#)
To: [Fuqua, Dominique](#)
Subject: FW: CTA EV - Results of Downhole Gamma Survey at Navy Pier Update -- Possible Thorium Contamination
Date: Thursday, December 20, 2018 8:41:46 AM
Attachments: [ATT00001.txt](#)

From: Simon, Verneta
Sent: Thursday, December 20, 2018 6:17 AM
To: Pastor, Susan <pastor.susan@epa.gov>; Keating, Debbie <keating.debbie@epa.gov>; Brown, Jaime <brown.jaime@epa.gov>; Martwick, Cathleen <martwick.cathleen@epa.gov>; Fulghum, Mary <fulghum.mary@epa.gov>; Horvatin, Shanna <horvatin.shanna@epa.gov>
Cc: Jablonowski, Eugene <jablonowski.eugene@epa.gov>; Haag, Daniel <Haag.Daniel@epa.gov>
Subject: FW: CTA EV - Results of Downhole Gamma Survey at Navy Pier Update -- Possible Thorium Contamination

From: House, Jason <jhouse@transitchicago.com>
Sent: Wednesday, December 19, 2018 3:29 PM
To: Simon, Verneta <simon.verneta@epa.gov>; Haag, Daniel <Haag.Daniel@epa.gov>; Jablonowski, Eugene <jablonowski.eugene@epa.gov>
Subject: FW: CTA EV - Results of Downhole Gamma Survey at Navy Pier

See below. Verneta- I am giving you a call now.

Jason House
Chicago Transit Authority
Assistant Chief Bus Equipment Engineer
Office: 773-874-7100 ext. 7850
Cell: 312-402-8764

From: Lawrence Darlak [<mailto:Lawrence.Darlak@mortenson.com>]
Sent: Wednesday, December 19, 2018 3:29 PM
To: House, Jason
Cc: Freeman, Charles; Khadijah Latiff; Kevin Boyce; Nicole Johnson; Wilding, Allison; Tokarski, Adam
Subject: CTA EV - Results of Downhole Gamma Survey at Navy Pier

****EXTERNAL EMAIL**** This email originated outside of CTA. ****NEVER CLICK or OPEN**** unexpected links or attachments. ****NEVER**** provide User ID or Password. CTA IT Support will NEVER ask you for such information. If this email seems suspicious, contact CTA Help Desk at x12345.

Jason,

Please see below in italics for an informal update from Arcadis on the results of the Downhole Gamma Survey. This is not a formal report, but just a summary. Please note, I believe the USEPA

needs to be notified if elevated radiation levels are detected, per the CDPH. If so, please notify the USEPA. Let us know if you have any further questions. Thank you.

“Drilling was completed at the Navy Pier site today. Of the 10 initial borings, gamma levels exceeding the action level for thorium were identified in the 2 southern-most borings, at approximately 3-5 feet below ground surface. Measurements above the action level were not identified in the remaining 8 borings.

An additional 4 step-out borings were drilled in the area north of the 2 southern-most borings, to determine the northern boundary of the soils exceeding the action level. Soils with gamma levels less than the action level were identified within about 10-15 feet of the initial, northern-most boring with elevated gamma levels. Step-out borings could not be completed to the east, west, or south of the 2 southern-most borings, due to utilities in the area.

The soil was replaced into the borings. Equipment and personnel were surveyed and verified to be clean. Fourteen (14) samples were collected in total, one at each boring. The samples will be shipped to Test America-St. Louis for gamma spectroscopy and metals analysis.

Based on the preliminary measurements, the southern portion of the planned excavation area appears to be contaminated with thorium above the EPA action level, at about 3 to 5 feet below the ground surface. Arcadis suggests notifying the CTA and EPA of the preliminary results. The sample report will include more detailed information, including the analytical sample results.”

Lawrence Darlak, Project Engineer

300 Park Boulevard, Suite 100
Itasca, IL 60143

Mortenson | *Building what's next.*[®]

direct 847.472.8244 | mobile 847.502.9391

lawrence.darlak@mortenson.com

www.mortenson.com/Chicago

